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\$A\$:sas 03/16/06 declaration.doc 1-009-98/1 PATENT

Attorney Reference Number 6395-59041-01 Application Number 09/889.317

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Tripp et al.

Application No. 09/889,317

Filed: July 13, 2001 Confirmation No. 2319

METHOD FOR THE PREVENTION AND

TREATMENT OF DISEASES CAUSED BY AN INFLAMMATORY RESPONSE

MEDIATED BY ENDOGENOUS SUBSTANCE P BY USING ANTI-SUBSTANCE P ANTIBODIES

Examiner: François P. Vandervegt

Art Unit: 1644

Attorney Reference No. 6395-59041-01

MAIL STOP RCE COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450

#### CERTIFICATE OF MAILING

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2006

# DECLARATION OF DR. TRIPP UNDER 37 C.F.R. §1.132

- 1. I, Ralph A. Tripp, and an inventor of the above-referenced patent application. I was employed by the Centers for Disease Control and Prevention, the assignee of the aboveidentified pending patent application. I hold a Ph.D. degree in immunology, and have expertise in RNAi therapeutics, innate and adaptive immune responses to respiratory viral infections, cytokines, chemokines and host cell defense mechanisms. I was employed by the Centers for Disease Control and Prevention for 7 years studying the mechanisms of immunity and disease pathogenesis associated with respiratory virus infections.
- 2. I have reviewed the specification of the above-referenced application, and the Office action, dated April 8, 2005. It is my understanding that claims 1-3, 5, 13, 14, 19-22, 31, 32, 37, 38, and 41-42 have been rejected as allegedly being obvious.

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- 3. As stated in my Declaration submitted on August 5, 2005, a major limitation in the effectiveness of monoclonal antibodies is immunogenicity of the monoclonal antibody itself; the development of an inflammatory reaction following administration can significantly limit the usefulness of an antibody. The immunogenicity of antibodies that specifically bind an antigen of interest (such as substance P), or fragments of this antibody, cannot be reliably predicted. In addition, the route of administration can affect the immunogenicity of an antibody; the effect of the route of administration on immunogenicity also must be determined experimentally.
- 4. Hemmingson et al. (Scand. J. Infect. Dis. 25(6): 783-985, 1993) describes that the nasal administration of non-specific immunoglobulins, mainly IgA, could be used for short-term physiological prophylaxis for the prevention of upper respiratory tract infections (colds) in healthy skiers. An upper respiratory tract infection (the common cold) is different from an infection with respiratory syncytial virus (RSV). RSV is a pathogenic agent (a virus) that induces lung inflammation, and can cause significant morbidity and mortality in preterm infants and young infants with chronic lung disease.

Currently, there are only two options for immunoprophylaxis for preventing respiratory syncytial virus (RSV) infection in infants. Respiratory Syncytial Virus Immune Globulin Intravenous (RSV-IGIV) is a polyclonal hyperimmune globulin prepared from donors selected for having high serum titers of RSV neutralizing antibody. SYNAGIS® (PALIVIZUMAB) is a humanized murine monoclonal anti-F glycoprotein IgG<sub>1</sub> antibody with neutralizing and fusion inhibitory activity against RSV. Both of these compositions are approved for use in the prevention of serious lower respiratory tract disease caused by RSV in pediatric patients at high risk of RSV disease

These compositions are administered either intramuscularly or intravascularly. Specifically, SYNAGIS® is supplied as a sterile, preservative free solution, and can be administered by intramuscular injection only. A copy of the package insert for SYNAGIS® is attached as Exhibit A. RSV-IGIV prophylaxis requires intravenous access, and is administered intravascularly as a 4-hour infusion. A copy of a printout from the British Columbia Ministry of Health describing RSV-IGIV administration is attached as Exhibit B.

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Attorney Reference Number 6395-59041-01 Application Number 09/889,317

Data on the effect of the route of administration (intranasal versus intraperioteneal) of F(ab)<sub>2</sub> anti-substance P antibodies fragments was presented in the Declaration of Ralph A. Tripp Under 37 C.F.R. § 1.132, that was submitted to the U.S. Patent and Trademark Office on August 5, 2005. The data presented therein documents an unexpectedly superior effect when F(ab)<sub>2</sub> anti-substance P antibodies fragments were administered intranasally (as compared to intraperitoneal administration). The two commercially available products for the prevention of lung inflammation caused by RSV are administered systemically by injection (either intravascular or intramuscular injection). In view of the prior routes of administration, one of skill in the art would have predicted a systemic route of administration, such as intramuscular, intraperitoneal, or intravenous administration, would be more efficacious and have less unwanted side effects than an intranasal route of administration for the treatment of a lung inflammatory disorder.

5. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of the Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Ralph A. Tripp

Data

## SYNAGIS (PALIVIZUMAB)

for Intransuscular Administration

IOF INTRIPUSCULAR ACIDITISCIALUM DESCRIPTION: Synapis' (railvirussis) is a humanizal monocloral suchody (IgOls) produced by teometrians DNA totalality, detected to an epilope in the A enligation site of the F protein of reprinting synapth virus [RSV). Synapis' is a composite of turnin (ISV) and nurino [ISV] suchody tequesces. The human beary thain sequence was derived from the straight framework regions of the V<sub>1</sub> geneta Cor (I) and they are the first from the desired from the annual derivate of Co and the turning framework regions of the V<sub>2</sub> gare K104 with 1120 (4), in a protected of the grain from the derivation of the configuration of the V<sub>2</sub> gare K104 with the graining of the regions complementarity described by the graining of the regions of the V<sub>2</sub> gare K104 with the graining of the regions complementarity described graining the first annual analysis (120 (4)), in a protected of the length of the graining and the graining that the graining and the graining and the graining that the graining and graining and

Squaris is available in two formulations a boundilized powder and a liquid solution.

Lyopalized Powders Synapis\* (100 repital) as a stretle symbilized product for reconstitution with sertle water for injecting Reconstructed Synapis\* (100 repital) is to be administered by intramuscular injection (IM) only. The reconstituted solution Avoid appear along or stightly operances with a p4 of 6.0.

Fach 100 mg angle-use via of Synagie' hopolitheal provider is formulated in 67.5 mg of frammabl, 8,7 mg institute and 6.3 mg of synagie' hopolitheal provider in formulated in 67.5 mg of frammabl, 8,7 mg institute and 6.3 mg of synagie' in 1.0 mL when recreatinated with 1.0 mL of startle water for injection.

Each 50 mg angle-use via of Synagie' hypolitheed provide is formulated in 40.5 mg ranadou, 5,2 mg of histolites and 6.2 mg spicine and in doctined to desire of 50 mg of synagie' in 0.5 inL when reconstituted with 05 mL of storile water for injection.

Liquid Saludina; Synagie' (100 mg/mL) is supplied as a corile, preservance-the solution to be administered by internuscular injection (100) only. The solution should appear clear or slightly opatences with a pH of 6.0.

Each 100 mg slagioner vial of Sysnegs' Equid saturing is formulated in 4.7 mg of histoidile and 0.1 mg of glytine in a volume of 1.2 cml, and is designed to deliver 100 mg of Synagir' in 1.0 ml. Each 50 mg anglosuse visi of Synagis" liquid tohuica is formulated in 2,7 mg of histidiae and 0,00 mg of plytime in a vol of 0,7 mL, and is designed to deliver 50 mg of Synagis" in 0.5 mL.

of C.7 ad. and is designed as deliver 50 mg of Synagar in 0.5 mL.

CLINICAL PHARMACOL (O.GY: Mechanism of Action: Synagar childs neutralizing and fasion-irrhibitory activity upoint

RSV These sciuries inhibit RSV explication in bistoratory experiments. Although resistant RSV sorties may be textuced in

RSV These sciuries inhibit RSV enters, were all neutralized by Synagar (9). Synagar serim concentrations of

240 upont, have been shown or reduce pulmonary RSV explication in the continent art modes of RSV discission for the continent art modes of RSV infection for the content art modes of RSV infection for the content art modes of RSV infection for the content are all respectively of the active ingredient in Synagar was unsented in a randomized, placebo-conveiled study of

35 positivity patients reachestly modested because of RSV discission. In these pulsets, Synagar ingriffmently reduced the quantity

of RSV in the latter appropriatory trust compared to revenir patients (6).

Physical Columnia is a compact to the compact to the control potents (e).

Physical Columnia is a control of the columnia of age without congenital learn discuss (CMD), the mean half-life of Synagis' was 20 styre and monthly intramaceuter duces of 15 ing/kg schizned medy a \$5,000 day trough serven drug concentrations of 37 ± 31 regimn. After the first injection, 57 ± 41 regimn, after the concentration of 37 ± 30 regimn. After the control injection 7,7 months concentrations following the first and down by making after the control injection 7,7 months concentrations following the first and down the mean a \$50 strum concentrations following the first and form injections were of ± 17 pigns and 80 + 31 pigns, respectively.

In 139 pediatric patients CC4 mounts of age with hemolycamically algorithms CIID was revised systaging and underwood cardio-polatomary bypass for every boart supers; the mean a SD systam Synagis" executation we 98 a 52 togethal before bypass and declined at 41 a 32 typhs. Infer bypass, a reduction of 58% (see DOMAGE ANDIADAMINISTRATION). The eliminal significance of this reduction is turbonom.

significance of this reduction is undersoon.

Specially studied were not conducted to evaluate the efficate of demographic parameters on Specially systemic compount. However, the effects of product use, body which as more on Sprangin' sortin stough concentrations were observed in a clinical analy with all productive patients with COD (CLI measts of ago) receiving five monthly information placetime of 15 mg/kg of Syrangin'. Trough section Syrangin' constrained and syrangin' hopehilized formation and interest syranging the production of 15 mg/kg or 6 yrangin'. Trough section Syrangin' were parameter of the production of 15 mg/kg or 15 m

Table 1: Including of R\$V Hotphalication by To-

	1						
Trial		Placebo	Ryangle	Difference Setween Groups	Relative Reduction	p-Velice	ř
Trist J	. n	500	1002			-	ŀ
IMpur-R5V	Keepitalization	53 (10.6%)	4# (4.8%)	5.6%	55%	<b>90.001</b>	ı
Trial 2		648	639				
CHD	Historianian	f3 (9.7%)	34 (5.3%)	4.4%	45%	0,003	ı

In Trial I, the reduction of RSV (respitalization was observed both in patients with BFD (\$1.66 (12.8%) placebo vs. 19496 (19.95) Synapis"). In Trial 2, reductions with a revenue inferior without BFD (19.254 (13.15) placebo vs. 9/06 (1.85) Synapis"). In Trial 2, reductions with referred in expansic (16/105 (11.8%) placebo vs. 15/10 (5.0%) Synapis") and cyannife children (27/343 [7.9%] placebo vs. 15/10 (5.0%) Synapis") and cyannife children (27/343 [7.9%] placebo vs. 15/10 (5.0%) Synapis") and cyannife children (27/343 [7.9%] placebo

The clinical studies do not suggest that RSV infection was less source among RSV hoppitalized putterns who received Sy compared to three who received photobo.

NUICATIONS AND BEAGE; Synaptis is indicated for the prevention of serious lower despiratory tract discuss caused by respiratory syneytal virus (USV) as producing patients at high risk of RSV disease. Solery and difficacy were emblished in lutants with twenthopsummany dynaptials (BFD), indirect with a beauty of premisens with (25 welfer) great could age), and children with here-dynamically algorificant congested heart disease (CHD) (see CLINICAL STUDIES).

CONTRAINDREATIONS: Synapist should not be used in positivity particles with a bistory of a secure prior reaction to Synapist or other components of this product.

WARNINGS, Very rus cases of maphylatic (<1 case per 100,000 patients) have been general following re-exposure to Synatis' law ADVERSE (MATTIONS). Data-Marketing Exportance). Been severe usual hyperfaminishing re-exposure to the exposure of the exposure o

PRECAUTIONS: General: Symple' is for infranta-ubt one only. As with any infranta-cider injection, Symple' chould be given with caution as patients with times-becytopenia or any commission of service.

The enforcement of established RSV discuss.

The single-use vial of Synagis' COS not comman a preservable. Lyophilized Synagis' must be used within a hours of expensionation. Administration of either reconstituted Synagis' or liquid Synagis' should occur immediately offer withdrawn from vial. The vial should not be re-control. Discord my transed portion.

Drug Invacations: No formal drug-drug instructive studies were conducted. In Trial 1, the proportions of palients in the pla and Synapsis groups who received autions childhood vacation, influences vectors, broadcassings or conductable were an east on incremental increment in adverse conductors was observed among patients receiving thrustagement.

and an information is accused in Souther Londons was concerned upong publicist receiving the figures.

Commingental, Shategeneria, Impatement of Pertitips Charlengenesis, management and reproductive relationships to the properties of the properti

Because clinical trials are conducted under widely verying conditains, eductic event rates obtained in the clinical trials of abuse cannot be detectly compared to rates in the clinical trials of another drug and may not reflect the rates observed in specific. The table sets received in Tables and the control of the clinical trials are the control of the clinical trials during the adverse control that appear to be related to this tree and a lastic for approximating rate.

tice and a tissue for approximating rates.

The data determined welfort Symajia" exposure for 1641 perfaint patients of ago 1 days to 2.4.1 floorids in Titule 1 and 2. Among these positions, 496 that benchmarkment of the plants of the and 519 had congrated larger disease. Advance event observed in due 133 perfect createver study complying the liquid and population formulations were similar between the two formulations, and similar to the advance events observed with Symajia" in Titule 1 and 2.

# Table 3: Adversa: Events Occurring at a Rate of 1% or Greater More Frequently to Patiental Receiving Systems (patietzaman)

Event	Symptis (n=1641) a (%)	Placetro (n=114H)
Upper respiratury infection	k30 (SO,6)	544 (47.4)
Albam sitif	597 (36,4)	397 (34,6)
ever	446 (27.1)	2R7 (35.2)
Ushrijia	439 (26,8)	282 (26,6)
krnia	68 (4.1)	30 (2.6)
GOT Increase	49 (3.0)	20 (1,7)

In Trial I, the Inchance of acti-Sympis' actionly following the fineth injection was 1,1% in the phectric group and 0,7% in the Sympis' group, in politicist according Sympis' for a second amount, one of the fifty-six publish but brancient, low tier reactivity. This reactivity was not associated with adverse events or claration in action concentrations. Introducing was and selected in Table 2.

These data reflect the percentage of pulsants whose test verific were considered positive for antibodies to Syragic' in an ELISA to and we highly dependent on the percentage of the secretary of the energy desired the energy of the energy desired the energy des

The following infector reactions have been identified and reported shring post-approval use of Sysingis? Because the reports of these reactions are withintery and the population is of insertain star, it is not always possible to reliably estimate the frequency of the reaction or establish a guesti relationship to drug exposure.

Based due operation is used to the control of the c

Limited information from post-marketing reports augents that, within spingle REV toosen, adverse events after a sixth or grouter done in Synagist are almider in character and frequency in three after the install five dates.

OVERDOSAGE: No date from clinical studies are available on overtakings. No texticity was observed in relative administered a studie immunicative or subcussome injection of Synapter at a deat of 50 mg/kg.

alogic mutualizations or successions in figures in appropriate to see the company of the property weight. Palents these who develop as RSV infection, should continue to receive insuchly does discussioned the RSV season. The should be administered price to commencement of the RSV season. In the northern hemisphere, the RSV season commences in Neuromber and basis through April, but a may begin carrier or person later to cortain commences or Neuromber and basis through April, but a may begin carrier or person later to cortain communities.

Synagis' series toyets are decreased after earlie-paimonary bypass (see CLINTAI PHARMACOLOCI). Patients undergoing cardio-paimonary hypeus should native a dost of Bynagis' as some as possible after the cardio-pathenerry bypass procedure (seen I sooner than a manh from the previous date). Thereafter, dates should be administered manufally.

Synapie" should be administered in a done of 15 mg/kg incommentation among to continue the many substitution of the digh. The gatest wastle should not be used national as neglection size because of the nick of damage as due administration. The does not name a patient weight (kg) x 15 mg/kg + 100 mg/ml, of Synagas". Injection volumes over 1 mL should be given as a thirdeed done.

Prepariation of Lymphilized Product for Administrations:

\*To approximate, remove the tab parties of the viul can and clean the rubber papper with 70% estatus or equivalent.

Both the 50 mg and 100 mg Yield centain an overfill to allow the withdrawed of 50 mg or 100 mg Synagis' respectively when reconstituted following the directions described below:

ALLOWLY and 0.5 mil. of textile water for injection to the 50 mg vital or said 1.0 mL of stende water the federism to the 100 mg vital. The wind should be taked slightly and goodly returned for 30 recently to would fearning. DO NOT STAKE or VIÇOROUSLY AUTATE the visit This is a critical step to avoid protonged fearning.

· Reconstituted Synthesis should stand professioned at news temperature for a minimum of 20 minutes until the column charifics.

Reconstituted Synagis' should be inspected visually for particulate matter or discretonation prior to administration. The reconstituted solution should appear clear or alighdy qualescent (a dain layer of micro-highlits on the surface is normal and will not affect design). DO NOT use if there is particulate matter of the solution is described.

Recommend Synague" also not consults a propertiable and about the extraordistation of the following Administrated within 6 hours of recovariation and about the extraordistated within 6 hours of recovariation. Administer the mediately after withdrawal three vial. Synague" is supplied in single-set vials. DR NOT recover the vial.

ition of Liquid Product for Administration:

. Resilions the tab parties of the vial cap and clean the nutber stopper with XPA exhaust or equivalent.

Buth the 50 mg and 100 mg vials contain an overfill to allow the windsmeal of 50 mg or 100 mg Synagir".

Synages downot contain a preservative and about the abministrated interesting that with broad from vial. Synages is supplied in single-use vials. DO NOT re-enter the vial. Diabord only unused partiers.

To prevent the transmission of inequities virtues or other infentious agents from one person to enother, secrito disposable synthese and needless should be used. DO NOT reuse syringes and needless

HOW SUPPLIED; Synagis" is available in two termulations: a pyrhillized powder and liquid solution,

Lyaphilized Poweter, Synagir's a alaphod in singlo-use vials as herbilized powder to deliver either Sil ang or 100 mg Synagir's ben reconstituted with sterilo water for injection.

50 mg visi NDC 60574-4112-1 Upon reconstitution the 50 mg vial contains 50 mg  $\rm Syragis^4$  in 0.5 to  $L_{\rm e}$ 100 mg vlai NDC 60574-4111-1 Upon reconstitution the 100 mg vial contains 100 mg Synagis\* in 1.0 ml., Legald Solution: Synugis's is rapolled in single-use while as a preservative free, sterile solution # 190 mg/mil. in 0.5 mL and 1.0 mL to deliver other 30 mg == 100 mg Synapis', respectively, far IM injection.

10 ting Vial NDC 60574-4114-1 The 50 mg vial comulus 50 mg Synaghe in 0.5 mL. 100 ng vist NDC 60574-4113-1 The 100 mg vial contains 100 mg Synagist in 1.0 mt.

Upon religion and until use, Syrengia" should be stored between 2°C and 8°C (36°F and 8°F) in its original customer. DO NOT track beyond the expination date:

Press B, and Hugg N. The Ambu Acid Sequences of the Fd Fragments of Two Huttern General Heavy Chains, Blockern, J. 1970, 117:641-660.

Takapahi N, Naras T, and Hanja T. Rearranged Immuneglobulin Heavy Chain Variable Region (V<sub>1</sub>) Pseudogeno Hust Dalcoss the Scennel Complementarity-Detectableing Region. Proc. Nat. Acad. Sci. USA 1944; 81:3104-5198. Besidey D., and Rabbitas T. Harron humans-globulin Variable Region Cities - DNA Sequences of Two Vic Gener and a Periodogene, Nature 1940, 288-730-733.

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Johnson R, Oliver C, Prince CA, et al. Development of a Businized Monoclassi Antibody (MEDIL-93) What Peters in Visro and in Year Activity Against Respiratory Syncytol Virus 1 Infon. Dis. 1997; 176;1215-1224.

Milley R, DeVinceuss J, Ramilo O, et al. Resherton of Kezylmany Syncytici Virtis (RSV) in Tracland Applicates in Inhibated Infigure by Use of Humanized Mussiclonal Amibody to RSV P Process, J, Infoc. Dis. 1998; 178:1535-1561.

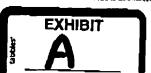
The Monther Study Group, Palinjamuh, a Hamanized Reinfratury Syncycial Vision Monoclanal Assibudy, Reduces, Hospitalization Front Respiratory Syncycled Virus Infection in High-Right Interna Podiaries 1976; 102:331-337. rapid to a registered trademark of Medimentals, Inc.

Manufactured by:

Medimmune, inc.

ROSS ADSOTT LANGUATORED INC.

Galthersburg, MD 20878 U.S. Gov's, License No. 125 (1-877-633-4411)



Rev Date: July 23, 2014 55P04-090



# BCHealthGuide



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# RSV-IGIV to prevent RSV infection

# **Examples**

Brand Name	Chemical Name
RespiGam	respiratory syncytial virus inimune globulin intravenous (RSV-GIV)

## How It Works

RSV-IGIV is used to help prevent or decrease complications of respiratory syncytial virus (RSV) infection, such as pneumonia and bronchiolitis. RSV-IGIV is made up of several proteins (antibodies) obtained from many human blood donors. The antibodies were created by the donors' natural defence (immune) systems to fight RSV.

RSV-IGIV is given through a pein (intravenous, br IV) in monthly doses for the entire RSV season (usually from November through March). It is given over about 4 hours in a hospital or doctor's office or at home.

#### Why It Is Used

RSV-IGIV is given only to help prevent RSV in children who have a high risk of developing complications. Fativizumab, another type of monoclonal antibody used for this purpose, is generally preferred over RSV-IG. However, either medication can be given for children at risk for RSV complications who:



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Topic Contents

Examples

How It Works

Why It Is Used

How Well It Works

Side Effects

What To Think About

References

EXHIBIT B

- Have chronic lung disease (CLD), also sometimes called bronchopulmonary dysplasia, and are of mently younger than 24 months. The child must have received treatment for the lung disease within the previous 6 months.
- Were born at least 8 weeks prematurely regardless of whether they have CLD. These children may benefit from treatment until they are 6 to 12 months old.
- Were born 5 to 8 weeks prematurely and have at least one additional risk factor. Palivizumeb is considered for these babies on an individual basis. Additional risk factors include babies who:
  - Weighed less than expected at birth (low-birthweight infants) and have other health problems that place them at risk.
  - · Live in a home with other young children.
  - Go to child dare centres.
  - O Are exposed to tobacco smoke
- Have impaired immune systems from diseases (such as AIDS) or take medication that suppresses the immune system, such as chemotherapy or steroids;

This medication is not an effective treatment for children already infected with RSV. It should also not be given to children who have a cyanotic congenital heart refect.

### **How Well It Works**

RSV-IGIV provides moderate protection for papies 2 RSV-IGIV has shown to reduce admission rates to hospitals in children born prematurely, in children with chronic trong disease, and in children with a combination of risk factors.

#### Side Effects

Side effects of RSV-IGIV are uncommon but can include:

- Allergic reaction.
- Fever.
- Nausea and vomiting
- Pulmonary edema.

Although there is a potential for contracting the infection, hepatitis, or other diseases from the blood product that makes up RSV-IGIV, the risk is extremely rare. All blood donors are carefully screened and blood products are treated for viruses. This process has virtually completely eliminated any risk of exposure from RSV-IGIV.

#### What To Think About

Immunizations with measles-mumps-rubella (AWR) and chicken pox vaccines should not be given for 9 mortisal fer the last dose of RSV-IGIV. The medication prevents in shill from developing antibodies to these vaccines. Other immunizations should be given as scheduled according to the childhood immunization schedule. Children who receive RSV-IG do not need an extra dose of any vaccine beyond the formal recommendations. 4

Palivizumab, another type of antibody disedificable event RSV in high-risk babies, may be preferred over RS 100. A child without waiting.

Preventive treatment with RSV-IG should critical enthroughout the RSV season, regardless of whether a child evelops RSV. Different strains of RSV can circulate with a sommunity during the same year, so treatment with respect to may still offer protection from infection.

Complete the new medication information in (PDF) (What is a PDF document) to help you understand this medication.

Author: Amy Fackler, MA

Merrill Hayden

pdated November 8, 2004

Medical Review: Tom Bailey MD - Family Med

Michael J. Sexton, MD - Fed 2 Maryin Turck, MD - Inferior

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